

JUN 08 1982

CA

**ROHM AND HAAS COMPANY**

CORPORATE HEALTH AND SAFETY  
INDEPENDENCE MALL WEST  
PHILADELPHIA, PA 19105

EMERGENCY TELEPHONE  
215-592-3000 (ROHM AND HAAS)  
800-424-9300 (CHEMTREC)



**HAZARD RATING** Fire Reactivity  
 4 - EXTREME  
 3 - HIGH  
 2 - MODERATE  
 1 - SLIGHT  
 0 - INSIGNIFICANT  
 \* - CHRONIC HEALTH HAZARD - SEE SECTION IV

Toxicity  
 0 1 0  
Special

**LIST 6****MATERIAL SAFETY DATA SHEET**

DPM 4700

<b>MATERIAL</b> PLEXIGLAS® VS PELLETS IG 100 Molding Powder		<b>CODE</b> 31712	<b>KEY</b> 902861-5	<b>FREIGHT CLASSIFICATION</b>
<b>FORMULA</b>		<b>DATE ISSUED</b> 12/07/81		
<b>CHEMICAL NAME OR SYNONYMS</b> Acrylic molding pellets				

**(I - INGREDIENTS)**

	WEIGHT %	TWA/TLV
Acrylic polymer Monomers	100 Trace	

**(II - PHYSICAL DATA)**

<b>APPEARANCE - ODOR - pH</b> Colorless pellets about 1/8" long; no odor			<b>VISCOSITY</b> NA
<b>MELTING OR FREEZING POINT</b> 270F flow temp.	<b>BOILING POINT</b> NA	<b>VAPOR PRESSURE (mm Hg)</b> NA	<b>VAPOR DENSITY (AIR = 1)</b> NA
<b>SOLUBILITY IN WATER</b> Negligible	<b>PERCENT VOLATILE (BY WEIGHT)</b> 0	<b>SPECIFIC GRAVITY (WATER = 1)</b> 1.15-1.18	<b>EVAPORATION RATE (BUTYL ACETATE = 1)</b> NA

**(III - FIRE AND EXPLOSION HAZARD DATA)**

<b>FLASH POINT</b> NA	<b>AUTO IGNITION TEMPERATURE</b> 482C /900F	<b>LOWER EXPLOSION LIMIT (%)</b> NA	<b>UPPER EXPLOSION LIMIT (%)</b> NA
--------------------------	--	--	--

**EXTINGUISHING MEDIA**  
☐ FOAM ☐ "ALCOHOL" FOAM ☒ CO<sub>2</sub> ☒ DRY CHEMICAL ☒ WATER FOG ☐ OTHER

**SPECIAL FIRE FIGHTING PROCEDURES**  
 Wear MSHA/NIOSH approved, pressure demand, self-contained breathing apparatus or equivalent.

**UNUSUAL FIRE AND EXPLOSION HAZARDS**  
 Burns vigorously with intense heat.

**(IV - HEALTH HAZARD DATA)**

**RECOMMENDED ROHM AND HAAS HEALTH GUIDE TWA (MAXIMUM TIME-WEIGHTED-AVERAGE CONCENTRATION FOR AN 8-HOUR WORK PERIOD)**  
 Acrylic monomer - 50 ppm measured as MMA

**EFFECTS OF OVEREXPOSURE**  
 This material is a solid polymer in pellet form and is not considered a hazardous material in normal storage and handling. However, low levels of monomers may be generated when the polymer is heated during processing. In addition, polymer dust particles may be generated from sawing and machining operations. Following are brief comments on the possible effects of overexposure to monomer vapors and polymer dust. More complete information is included in Rohm and Haas bulletin PL1003C, which is available on request and which users are urged to obtain and study before processing this product. SEE SECTION X.

**EMERGENCY AND FIRST AID PROCEDURES**  
**Inhalation:** Move subject to fresh air.

**Eye and Skin Contact:** Flush eyes with water to remove polymer dust particles. Wash affected skin areas with soap and water.

**(V - REACTIVITY DATA)**

STABILITY		CONDITIONS TO AVOID	
<input checked="" type="checkbox"/> STABLE	<input type="checkbox"/> UNSTABLE	NA	
HAZARDOUS DECOMPOSITION PRODUCTS			
Thermal decomposition may yield acrylic monomers.			
HAZARDOUS POLYMERIZATION		CONDITIONS TO AVOID	
<input type="checkbox"/> MAY OCCUR	<input checked="" type="checkbox"/> WILL NOT OCCUR	NA	
INCOMPATIBILITY (MATERIALS TO AVOID)			
<input type="checkbox"/> WATER	<input type="checkbox"/> OTHER	None	

**(VI - SPILL OR LEAK PROCEDURE)**

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Sweep up carefully to prevent slipping on polymer pellets.

**WASTE DISPOSAL METHODS**

Discard with normal trash or landfill according to current local, state and federal regulations.

**(VII - SPECIAL PROTECTION INFORMATION)**

VENTILATION TYPE Normal room ventilation is adequate for storage and handling. If overheating occurs during processing, exhaust ventilation should be provided (See Section IV).

**RESPIRATORY PROTECTION**

None required for normal operations.

**PROTECTIVE GLOVES**

Cotton or canvas

**EYE PROTECTION**

Safety glasses with side shields (ANSI Z87.1, 1979)

**OTHER PROTECTIVE EQUIPMENT**

Eyewash facility

**(VIII - STORAGE AND LABELING)****STORAGE TEMPERATURE**

MAX. MIN.

**INDOOR**

YES

**HEATED**

NO

**REFRIGERATED**

NO

**OUTDOOR**

YES

Store at ambient temperatures.

**(IX - TOXICITY INFORMATION)****(X - MISCELLANEOUS INFORMATION)**

When processing the material, local and/or general room exhaust ventilation may be required to meet ACGIH 100 ppm TLV or the Rohm and Haas recommended TWA of 50 ppm for methyl methacrylate.

**Inhalation:** Monomer vapors may cause irritation, nausea, headache and dizziness. Polymer dust particles may irritate the upper respiratory tract after prolonged or repeated exposure.**Eye Contact:** Monomer vapors and polymer dust particles may irritate the eyes.**Skin Contact:** Polymer dust particles may irritate the skin on prolonged or repeated contact.

PLEXIGLAS® IS A TRADEMARK OF ROHM AND HAAS COMPANY OR ONE OF ITS SUBSIDIARIES OR AFFILIATES.

NA = NOT APPLICABLE  
C = CEILING VALUE**KEY**

902861-5

**DATE OF ISSUE**

12/07/81

**SUPERSEDES**

03/79

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED ACCURATE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF.

VENDOR ASSUMES NO RESPONSIBILITY FOR INJURY TO VENDEE OR THIRD PERSON PROXIMATELY CAUSED BY THE MATERIAL IF REASONABLE SAFETY

PROCEDURES ARE NOT ADHERED TO AS STIPULATED IN THE DATA SHEET. ADDITIONALLY, VENDOR ASSUMES NO RESPONSIBILITY FOR INJURY TO VENDEE OR THIRD PERSONS PROXIMATELY CAUSED BY ABNORMAL USE OF THE MATERIAL EVEN IF REASONABLE SAFETY PROCEDURES ARE FOLLOWED. FURTHERMORE, VENDEE ASSUMES THE RISK IN HIS USE OF THE MATERIAL.